

**State of California**  
Department of Food and Agriculture  
Division of Measurement Standards

Certificate Number: 4232(d)-02

Page 1 of 3

***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing and Measuring Devices***

**For:**

Retail Motor Fuel Dispenser  
Digital Electronic (Volume Only)  
Models: 9820 (Astra), 9840, and 9850 Series\*

Total Indicated Volume Units: 999.9

**Submitted by:**

Gasboy International, Inc.  
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**Standard Features and Options**

\* Two groups of suffixes may appear following the basic model number designation and are separated by a space.

<u>Model Number</u>	<u>Description</u>	<u>Flow Rate (GPM)</u>
9822-Suffix (Astra)	Standard Speed Dispenser (Above Ground)	7-15
9823-Suffix (Astra)	High Speed Dispenser (Above Ground)	7-22
9840-Suffix	Super Speed Dispenser	8-40
9850-Suffix	Super Speed Dispenser	6-50
9852-Suffix	Standard Speed Dispenser	7-15
9853-Suffix	High Speed Dispenser	7-22

- Nozzles island oriented
- Electronic register
- LCD display
- Mechanical totalizer: Up to 999 999.9 volume units

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: February 20, 2002

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Mike Cleary, Director

**Gasboy International, Inc.**  
**Retail Motor Fuel Dispenser**  
**Models: 9820 (Astra), 9840, and 9850 Series**

**Application:** For use in dispensing gasoline, AV gas, and diesel motor fuel in applications where a volume only dispenser is considered suitable.

May be used with approved compatible equipment.

May be used with Phase II vapor recovery equipment when the system and components are certified and the dispensers comply with zero-set-back interlock requirements.

**Identification:** The permanent identification badge is located on the side of the chassis.

**Suffix Designation and Description:** (the two groups of suffixes are separated by a space)

**First Group**

A = Factory fabrication and assembly modifications to chassis  
HC = High capacity model  
M = Manifolded supply inlet at the pumping unit inlet  
TW1 = Manifolded supply inlet  
TW2 = Two individual supply inlets  
X = Dispenser supplied by a submersible pump

**Second Group**

B = Battery back-up for electronics  
C = Pump interface  
D = DC conduit and junction box  
F = Fuel filter  
G = Imperial gallons registration  
H = High hose retriever  
I = Internal hose retriever  
L = Lighted panel  
N = Equipped to handle a long spout nozzle  
P = Satellite dispenser as part of the unit (for connection to a master pump)  
PP = Solenoid valves (optional only on pumps)  
R = Liters registration  
S = Piping for connection to satellite  
SS = Stainless steel panels  
SSA = Equipped with stainless steel doors  
SSTS = Stainless steel tops and doors  
T = Mechanical totalizer  
U = Submersible drive relays  
W = Heater  
Y = Vapor recovery ready  
2 = 230 VAC operation  
4 = RS-485 interface  
5 = 50 Hz operation  
7 = Electronic totalizer activator on both sides

**Sealing:** The meter calibration adjustment may be secured with a wire security seal threaded through two drilled head screws.

**Gasboy International, Inc.**  
**Retail Motor Fuel Dispenser**  
**Models: 9820 (Astra), 9840, and 9850 Series**

**Operation:**

- Model 9822 Series dispensers contain one Tokheim Model 898K meter.
- Model 9823 Series dispensers contain one Tokheim Model 898K meter with a larger pumping unit and piping.
- Model 9840 Series dispensers contain two Tokheim Model 898K meters each equipped with a pulser which sends pulses to integrated controller software to advance the register.
- Model 9850 Series dispensers contain one Liquid Controls Model M5 meter and a Blackmere vane pump.
- Model 9852 Series dispensers contain one Tokheim Model 898K meter.
- Model 9853 Series dispensers contain one Tokheim Model 898K meter with a larger pumping unit and piping.

**Test Conditions:** This certificate supersedes Certificate of Approval Number 4232(c)-00 and is issued to add AV gas to the approved products for dispensers in this Series using Tokheim Model 898K meters. This certificate is issued without additional testing based on the evaluation of the 9100A Series (Certificate of Approval Number 3176(d)-97). The 9100A Series dispensers and the 9800 Series dispensers use the same Tokheim Model 898K meters. Previous test conditions are repeated below for reference.

**Certificate of Approval Number 4232(c)-00:** This certificate was issued to add the Models 9822 and 9823 (ASTRA Series) dispensers. No additional testing was performed since the 9822 and 9823 dispensers are metrologically identical to the Models 9852 and 9853. However, the 9822 and 9823 use above ground storage instead of under ground storage.

**Certificate of Approval Number 4232(b)-98:** This certificate was issued to include the Models 9840 and 9850 Series. The Model 9850X DPPSSS was tested initially and then 30 days later. Tests were made at three different flow rates. The 9840 and 9850 Series dispensers use internal components similar to the 9140 and 9150 Series dispensers (Certificate of Approval Number 3176(d)-97).

**Certificate of Approval Number 4232(a)-97:** This certificate was issued to add 10 new suffixes to the suffix list. No new testing was performed. A review of the data supplied by the manufacturer indicates suffix compliance.

**Certificate of Approval Number 4232-95:** Dispenser Models 9852 and 9853 were tested initially and then 30 days later. The emphasis of the evaluation was on the device design, operation, and performance. Tests were made at three different flow rates. Additionally, the dispenser hydraulics are identical to the Gasboy Model 9100 Series dispensers (Certificate of Approval Number 3176(d)-97).

The results of the evaluations and information provided by the manufacturer indicate the dispensers comply with applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2002 Edition

**Tested By:** D. Reiswig (CA), J. Raspino (CA), and S. Boyd (CA)